Docket No.: 059516-0058

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Customer Number: 20277

Tao Lu LOWE, et al. : Confirmation Number: 3378

Application No.: 10/807,510 : Group Art Unit: 1632

Filed: March 24, 2004 : Examiner: Not yet assigned

For: MULTI-FUNCTIONAL POLYMERIC MATERIALS AND THEIR USES

INFORMATION DISCLOSURE STATEMENT

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In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

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10/807,510

Facsimile: 202.756.8087 **Date: April 11, 2005**

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Respectfully submitted,

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INFORMATION DISCLOSURE ATTY, DOCKET NO. SERIAL NO. 059516-0058 10/807,510 CITATION IN AN APPLICATION **APPLICANT** Tao Lu LOWE, et al. FILING DATE GROUP (PTO-1449) March 24, 2004 1632 PATENT DOCUMENTS Publication Date Name of Patentee or Applicant of Cited Pages, Columns, Lines, Where Relevant **EXAMINER'S** CITE Document Number MM-DD-YYYY Passages or Relevant Figures Appear INITIALS NO. Document Number-Kind Code2 (# known) US FOREIGN PATENT DOCUMENTS Name of Patentee or **EXAMINER'S** Foreign Patent Document **Publication Date** Pages, Columns, Lines Translation INITIALS Applicant of Cited Document Where Relevant MM-DD-YYYY Country Codes-Number 4-Kind Codes (if CITE Yes No Figures Appear known) NO OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) **EXAMINER** include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published SINITIALS CITE NO. KURISAWA M, et al. (1998a). "Modulated degradation of hydrogels with thermoresponsive network in relation to their swelling behavior", Macromolecular Chemistry and Physics 199: 705-709 KURISAWA, M and YUI, N (1998b). "Modulated degradation of dextran hydrogels grafted with poly(N-isopropylacrylamide-co-N,N-dimethylacrylamide) in response to temperature", Macromolecular Chemistry and Physics 199: 2613-2618. SALTZMAN, WM, et al. (1999). "Intracranial delivery of recombinant nerve growth factor: Release kinetics and protein distribution for three delivery systems", Pharmaceutical Research 16: 232-240. CAO, XD and SHOICHET, MS (1999). "Delivering neuroactive molecules from biodegradable microspheres for application in central nervous system disorders", Biomaterials 20: 329-339. STILE, RA, et al. (1999). "Synthesis and characterization of injectable poly(N- isopropylacrylamide)-based hydrogels that support tissue formation in vitro", Macromolecules 32: 7370-7379. ZHANG, YL, et al. (1999). "Synthesis and characterization of biodegradable network hydrogels having both hydrophobic and hydrophilic components with controlled swelling behavior", Journal of Polymer Science Part a-Polymer Chemistry 37: 4554-4569. KLOK, HA, et al. (2002). 'Self-assembling biomaterials: L-lysine-dendron-substituted cholesteryl-(L-lactic acid)(n)over-bar", Macromolecules 35: 6101-ZHU, LY, et al. (2002). "Thermosensitive aggregates self-assembled by an asymmetric block copolymer of dendritic polyether and poly(Nisopropylacrylamide)", European Polymer Journal 38: 2503-2506. YOSHIDA, T, et al. (2003). "Newly designed hydrogel with both sensitive thermoresponse and biodegradability", Journal of Polymer Science Part a-Polymer Chemistry 41: 779-787. CHOI, JS, et al. (1999). "Poly(ethylene glycol)-block-poly(L-lysine) dendrimer: Novel linear polymer/dendrimer block copolymer forming a spherical watersoluble polyionic complex with DNA", Bioconjugate Chemistry 10: 62-65. CHOI JS, et al. (2000). "Synthesis of a barbell-like triblock copolymer, poly(L-lysine) dendrimer-block-poly(ethylene glycol)-block-poly(L-lysine) dendrimer, and its self-assembly with plasmid DNA", Journal of the American Chemical Society 122: 474-480. LOWE, TL, et al. (1998). "Partially fluorinated thermally responsive latices of linear and crosslinked copolymers" Journal of Polymer Science Part B-Polymer Physics 36: 2141-2152. LOWE, TL and TENHU, H (1998). "Interactions of thermally responsive polyelectrolyte latices with low molar mass organic molecules studied by light scattering", Macromolecules 31: 1590-1594. LOWE, TL, et al. (1999). "Thermal and rheological properties of hydrophobically modified responsive gels", Macromolecular Chemistry and Physics 200: 51-57. LOWE, TL, et al. (1999). "Hydrophobically modified responsive polyelectrolytes", Langmuir 15: 4259-4265. LOWE, TL, et al. (1999). "Interactions of drugs and spin probes with hydrophobically modified polyelectrolyte hydrogels based on N-isopropylacrylamide", Polymer 40: 2595-2603. LOWE, TL, et al. (1999). "Effect of hydrophobicity of a drug on its release from hydrogels with different topological structures", Journal of Applied Polymer Science 73: 1031-1039. VAN DIJK-WOLTHUIS, WNE, et al. (1997). "A new class of polymerizable dextrans with hydrolyzable groups: Hydroxyethyl methacrylated dextran with and without oligolactate spacer", Polymer 38, 6235-6242. VAN DIJK-WOLTHUIS, WNE, et al. (1997). "Degradation and release behavior of dextran-based hydrogels", Macromolecules, 30, 4639-4645. **EXAMINER** DATE CONSIDERED

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